

Claims

1. Control device with decoupling crown for a watch, characterised in that it comprises:
 - a supporting part (10) intended to be fixed at the watchcase (3) or consisting of the watchcase (3) itself, this supporting part (10) comprising an opening,
 - a drive shaft (11) extending inside the opening, intended to control at least one function of the watch, and comprising first coupling means (15),
 - a crown (12) comprising a crown's head (13) and a tube (14) integral with the crown's head (13), the tube (14) being mounted rotatably and translatably between the wall (10') of the opening and the drive shaft (11), and comprising second coupling means (16), and
 - an indexing element (18) placed into the opening that is integral with the supporting part (10) or with the tube (14), and able to cooperate with first and second structures (19, 20) provided on the outside of the tube (14) or wall (10') of the opening in order to define a first axial position of the crown (12) in which the first and second coupling means (15, 16) are engaged and allow the drive shaft (11) to be rotated when the crown (12) is rotated, and a second axial position of the crown (12) in which the tube (14) is disengaged from the drive shaft (11).
2. Control device of claim 1, characterised in that the supporting part (10) is a tube intended to be fixed at the watchcase (3).
3. Control device of claim 1 or 2, characterised in that the indexing element (18) is integral with the supporting part (10), and the first and second structures (19, 20) are located on the outside of the mobile tube (14).
4. Control device of any of claims 1 to 3, characterised in that the indexing element (18) is a gasket.
5. Control device of any of claims 1 to 3, characterised in that the indexing element (18) is a thoracic gasket, and the first and second structures (19, 20) are annular grooves.

6. Control device of claim 5, characterised in that the thoracic gasket (18) is held in an annular groove (17) formed in the wall (10') of the opening.
- 5 7. Control device of any of claims 1 to 6, characterised in that the first and second coupling means are outer teeth (15) and inner teeth (16), respectively.
8. Control device of any of claims 1 to 7, characterised in that it comprises a stop screw (22) screwed into the end of the drive shaft (11) that is farthest from the watchcase (3), in order to limit the axial movement of the crown (12) in the direction of increasing distance of the crown (12) from the watchcase (3).
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9. Watch equipped with a control device according to any of claims 1 to 8.